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volume is a worthy member of the large series of annual reports of this survey, and is quite as important and rather more fully illustrated than any of its predecessors. The field work reported upon embraced the completion of the explorations known as the Survey of Colorado and portions of adjacent Territories, and was finished in 1876.

The first part, relating to geology, contains a report of Dr. C. A. White on a portion of North-western Colorado, of F. M. Endlich, Geologist of the White River division, of Dr. A. C. Peale, Geologist of the Grand River district, and of W. H. Holmes on the geology of the Sierra Abajo and West San Miguel mountains. These reports are followed by an elaborate essay by Mr. Endlich on the volcanic rocks of Colorado.

The second part, topography, embraces reports by A. D. Wilson on the primary triangulation of Colorado; by Henry Gannett on the arable and pasture lands of Colorado; by G. B. Chittenden on the White River district, and by G. R. Bechler on the Yampa River district.

The third part, archæology and ethnology, is rich in new facts regarding ancient ruins of South-western Colorado, contributed by Mr. W. M. Holmes and Mr. W. H. Jackson. This portion is illustrated by a large number of plates, and is accompanied by essays on the Chaco cranium, and on the Indians of Nevada, California and Arizona, by Dr. W. J. Hoffman.

Part four, palæontology and zoölogy contains an essay by Mr. Lesquereux on the fossil plants secured by the Survey in 1877, and a report by A. S. Packard, Jr., on the insects affecting the cranberry, &c. The maps are in some cases colored, and add greatly to the interest and value of the report.

Fifty of the plates illustrate the remarkable cliff dwellers in southern Colorado and northern New Mexico. A very interesting series of chapters treats of the geology of Colorado, and there is much besides of great interest to the general as well as the scientific reader. Unfortunately, Congress has only ordered the printing of 4,500 copies, and the demand far exceeds the supply.

This Survey has done so much, by its publications, to spread the knowledge both at home and abroad of the remarkable country constituting its field of labor, that every annual report finds an increasing number of readers, and it is not surprising, therefore, to meet with expressions of regret at the want of liberality on the part of Congress in printing too small editions, expressed in our own and foreign scientific journals.

MOSELEY'S STRUCTURE OF THE STYLASTERIDÆ.<sup>1</sup>—It will be remembered that Mr. Moseley substantially set at rest all doubts

<sup>1</sup> *The Croonian Lecture, On the Structure of the Stylasteridæ, a family of the Hydroid Stony Corals.* By H. N. MOSELEY, F.R.S. (From the Philosophical Transactions of the Royal Society. Part i, 1878.) London. 4to, pp. 78, 11 plates.

as to the hydroid nature of *Millepora*, first suggested by Agassiz and endorsed by Verrill. The present admirable and masterly study certainly proves, beyond doubt, the hydroid nature of the family of beautiful coral-like structures, called from the name of the typical genus (*Stylaster*) *Stylasteridæ*.

Most of the specimens studied by Mr. Moseley were obtained at a single haul of the dredge aboard the *Challenger*, at a depth of 600 fathoms, off the mouth of the Rio de la Plata, in 1876. It was the examination of this set of specimens which first convinced him that the *Stylasteridæ* were Hydroids and not Anthozoans. The hard and soft parts are described and very fully and beautifully illustrated, the drawings being large and thoroughly intelligible.

As in most all Hydroids, the sexes are on different stocks which have a tendency to grow in a flabellate form with alternate germination. The family is placed with the *Milleporidæ* in a separate sub-order named by Mosely, *Hydrocorallinæ*. This sub-order, its families and genera, are described in full, and an essay is given on the pedigree of the *Hydrocorallinæ*. The author suggests the former existence of a hypothetical *Archistylaster*, and regards *Sporadopora* as "the most ancestral Stylasterid at present known." The essay closes with a short chapter on the distribution in space and time of the *Stylasteridæ*.

RECENT BOOKS AND PAMPHLETS.—Report upon the Reptiles and Batrachians collected during the years of 1875, 1876 and 1877, in California, Arizona and Nevada. By Dr. H. C. Yarrow and H. W. Henshaw. Washington, 1878. 8vo, pp. 23.

List of marine Fishes collected on the coast of California, near Santa Barbara, in 1875, with notes. By Dr. H. C. Yarrow and H. W. Henshaw. Washington, 1878. 8vo, pp. 7.

On the fossils called "Granicones;" being a contribution to the histology of the Exo-skeleton in "Reptilia." By Prof. Owen, C.B., F.R.S., etc. (Reprinted from the Journal of the Royal Microscopical Society.) London, 1878. 8vo, pp. 4.

Preliminary Report of the field work of the U. S. Geological and Geographical Survey of the Territories for the season of 1878. By F. V. Hayden. Appendix containing reprints of early papers by the author from the American Journal of Science and Arts. Washington, D. C. 8vo, pp. 29.

A Naturalist in the Magdalen Islands. By Charles B. Cary. (Illustrated.) 8vo, cloth, pp. 93. Boston, 1878. From the author.

Proceedings of the Academy of Natural Sciences of Philadelphia, 1878. 8vo, pp. 329-376. From the Society.

The American Journal of Science and Arts, No. 97, Vol. xvii, Jan. 1879. 8vo, pp. 1-92, pls. iii-x. New Haven, J. D. & E. S. Dana, 1879.

The Fossil Insects of the Green River Shales. By Samuel H. Scudder, Cambridge, Mass. (Ext. from the Bulletin of the U. S. Geol. and Geograph. Survey, Vol. iv., No. 4. F. V. Hayden, U. S. Geologist-in-charge.) 8vo, pp. 747-776. Washington, Dec. 11, 1878. From the author.

Hand-book of Alabama; a complete Index to the State, with a geological map and an appendix of useful tables. By Saffold Berney, attorney at law, Mobile, Ala. 8vo, pp. 338. Mobile, 1878. From the author.

Outline of the Geology of Alabama. By Eugene A. Smith, Ph.D., State geologist. (Extracted from Berney's Hand-book.) 8vo, pp. 68, with map. Mobile, 1878. From the author.